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applied cybernetics

16 FEBRUARY 1960

[redacted]
P. O. Box 974
WASHINGTON 4, D. C.

DEAR JOHN,

WE HAVE COMPLETED OUR QUALITY CONTROL INSPECTION ON THE GIANT AND ARE BEGINNING OUR PERFORMANCE AND CALIBRATION TESTS. ENCLOSED HEREWITH IS THE TEST PROGRAM. IF YOU HAVE ANY COMMENTS OR ADDITIONS TO THIS, WOULD YOU PLEASE CALL THEM INTO OUR WASHINGTON OFFICE SO THEY CAN RELEASE IT TO ME BY TELETYPE.

UNLESS WE RUN INTO STRANGE AND UNFORESEEN PROBLEMS IN OUR TEST PROGRAM, WE SHOULD BE FINISHED WITH THIS EQUIPMENT BY THE END OF THIS WEEK. OUR MOVERS HAVE ESTIMATED THAT THEY CAN DELIVER IT TO YOU SIX DAYS AFTER PICKUP HERE. I QUESTION THIS DUE TO THE EXTRAORDINARY REQUIREMENTS FOR BRACING AND PACKING AS WELL AS ADVERSE WEATHER CONDITIONS ENROUTE. A REPRESENTATIVE OF THE VAN COMPANY IS COMING IN TOMORROW, SO I CAN EXPLAIN IN DETAIL TO HIM THE BRACING REQUIREMENTS. AT THAT TIME I EXPECT TO GET A FIRM COMMITMENT FROM HIM AS TO DELIVERY TIME INCLUDING CONSIDERATION OF WEATHER CONDITIONS. I WILL LET YOU KNOW WHAT THIS DELIVERY TIME IS AS SOON AS I AM SATISFIED THAT I CAN GIVE YOU A DATE ON WHICH YOU CAN DEPEND. I AM ACUTELY AWARE OF THE INSTALLATION PROBLEM YOU WILL HAVE.

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SINCERELY YOURS,

[redacted]
VICE-PRESIDENT
ENGINEERING

JCP:JP

ENCLOSURE

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GIANT PERFORMANCE PROGRAM

1. MEASURE ACCURACY, REPEATABILITY AND LINEARITY.

   1.1 ACCURACY TO BE MEASURED BY REPEATED MEASUREMENT OF OUR SIMULATED INTERFACE AND COMPARING THE COMPUTED CURVES DERIVED FROM THESE MEASUREMENTS OR BY SIMPLY PLOTTING THE COORDINATES OBTAINED ON A MUCH EXPANDED SCALE, SAY 10X.

   1.2 REPEATABILITY CAN BE DETERMINED BY LOCKING THE Y AXIS AND REPEATEDLY MEASURING THE SAME POINT FROM BOTH DIRECTIONS.

   1.3 LINEARITY IN X AND Y TO BE OBTAINED BY MEASURING LINES ON A GRID OF KNOWN ACCURACY.

2. MEASURE THE MINIMUM LINE WIDTH IT WILL TRACK.

3. DETERMINE THE MINIMUM DENSITY DIFFERENTIAL IT CAN TRACK.

4. WHAT IS THE DYNAMIC TRACKING ERROR WHEN TRACKING A STRAIGHT LINE.

5. WHAT IS THE RESOLUTION OF THE OPTICAL SYSTEM? LINES/MM.

6. MEASURE MINIMUM AND MAXIMUM FILM TRANSPORT RATES.

7. MEASURE MINIMUM AND MAXIMUM MEASURING ENGINE TRANSPORT SPEEDS.

8. WHAT ARE THE LIGHT LEVELS AT VARIOUS AREAS OF THE SCREEN WITH NO FILM IN THE GATE? WITH 1.0 DENSITY FILTER?